CLAIMS

1. A method of processing an information sequence with a decoder, comprising:

selecting a window within the information sequence;
calculating a training period for the window; and
initializing at least one recursion of the window based on the
calculated training period.

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- 2. The method of claim 1 wherein the recursion is a forward recursion.
- The method of claim 1 wherein the recursion is a backward recursion.
- 4. The method of claim 1 further comprising:dividing the information sequence into at least two windows.
 - The method of claim 1, further comprising:
 calculating the training period based on a size of the window.

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6. The method of claim 1, further comprising: calculating the training period based on a signal quality of the window.

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7. The method of claim 6 wherein the training period is non-decreasing as the signal quality increases.

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- 8. The method of claim 1 wherein the decoder is iterative.
- The method of claim 8, further comprising:
 calculating the training period based on an iteration number.
- 10. The method of claim 9 wherein the training period is non-decreasing as the iteration number increases.

selecting an additional window; and

11. The method of claim 1 further comprising:

computing an additional training period for the additional window

- based on the training period of the window.
 - 12. Computer program product in a computer usable medium for processing an information sequence with a decoder, comprising:
- computer program code that selects a window within the information sequence;

computer program code that calculates a training period for the window; and

- computer program code that initializes at least one recursion of the window based on the calculated training period.
 - 13. The program of claim 12, further comprising:

 computer program code that divides the information sequence into at least two windows.

14.	The program of claim 12, further comprising:
	computer program code that calculates the training period based
on a size of t	he window.

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15. The program of claim 12, further comprising: computer program code that calculates the training period based on a signal quality of the window.

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16. The program of claim 12, wherein the decoder is iterative, further comprising:

computer program code that calculates the training period based on an iteration number.

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17. The program of claim 12, further comprising: computer program code that calculates the training period using a size of the window, a signal quality of the window and an iteration number of the window.

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18. A turbo decoding system comprising: means for selecting a window within an information sequence; means for calculating a training period for the window; and means for initializing at least one recursion of the window based on the calculated training period.

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19. The system of claim 18, further comprising: means for dividing the information sequence into at least two windows.

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20. The system of claim 18, further comprising: means for calculating the training period based on a size of the window.

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21. The system of claim 18, further comprising:

means for calculating the training period based on a signal quality of the window.

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22. The system of claim 18, wherein the decoder is iterative, further comprising:

means for calculating the training period based on an iteration number.

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23. The system of claim 18, further comprising:

means for calculating the training period using a size of the window, a signal quality of the window and an iteration number of the window.

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24. The system of claim 18, further comprising: at least one interleaver.

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25. The system of claim 18, further comprising: at least one de-interleaver.